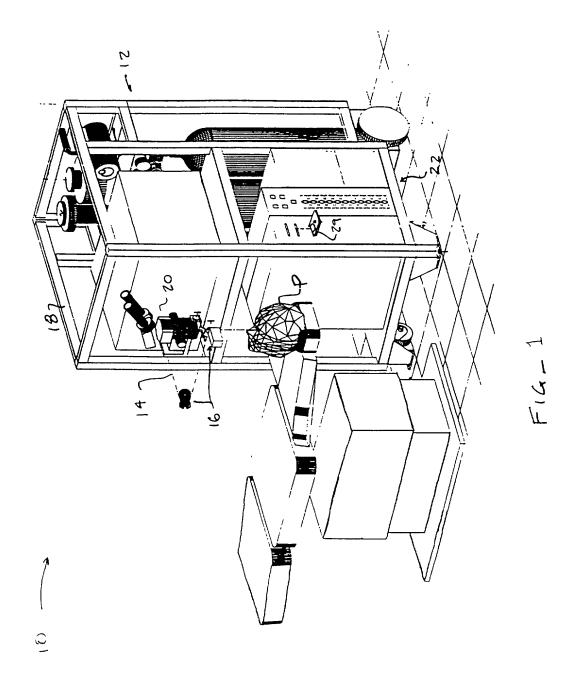
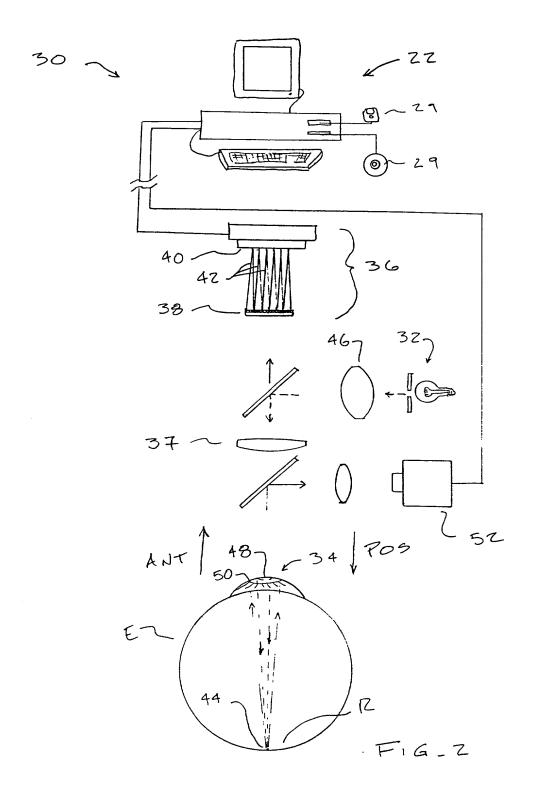
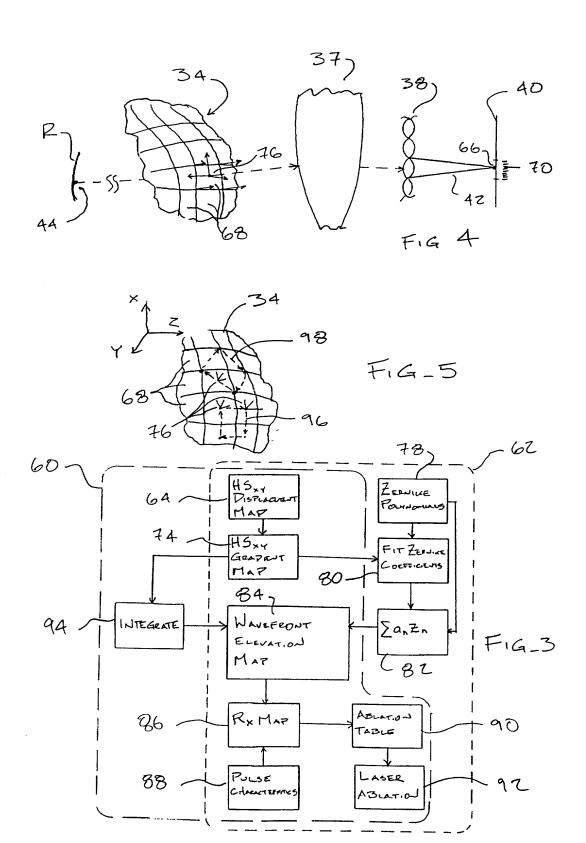
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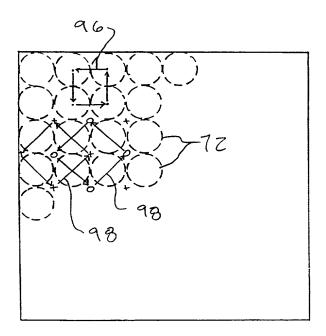
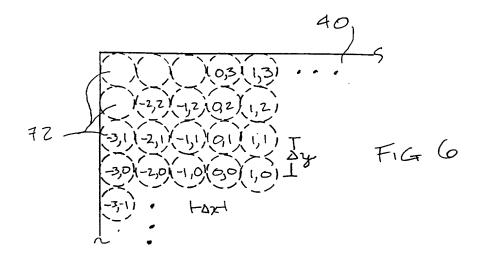
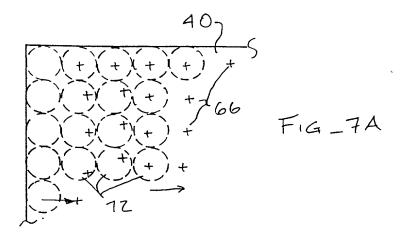
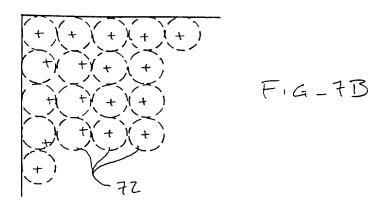


FIG-GA

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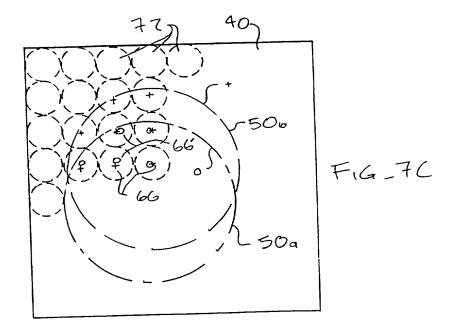






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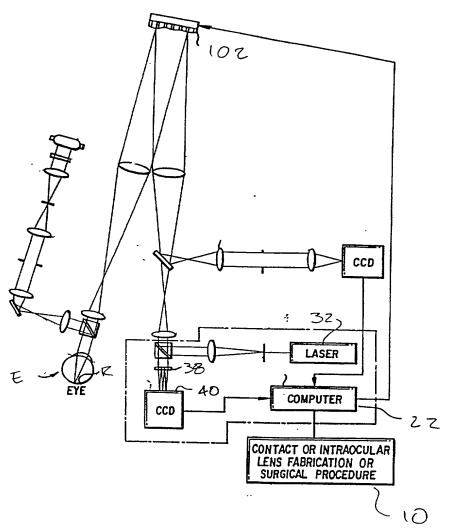
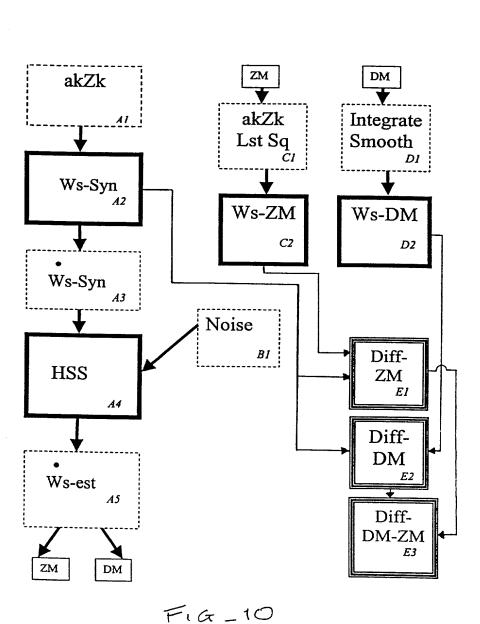


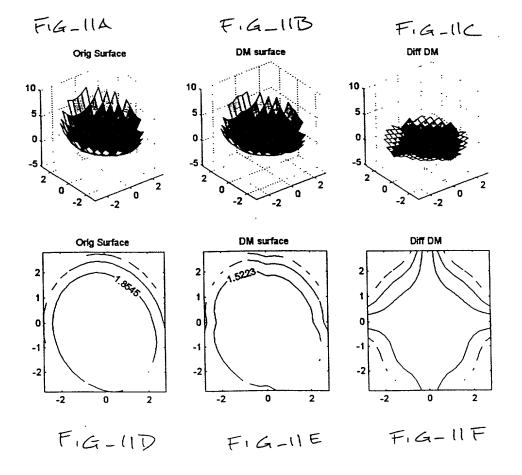
FIG - 9

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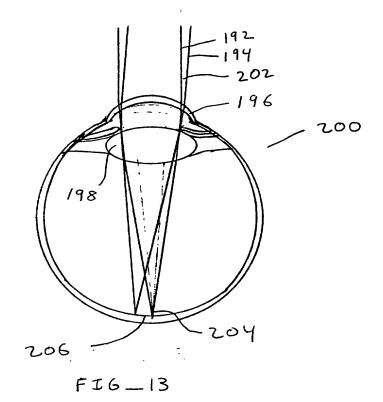


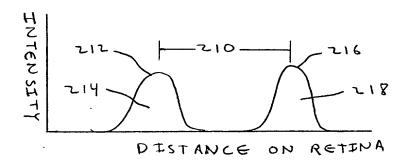
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j_	n(ρ)	m(θ)	(C)	(per per per per per per per per per per	Names	Order
0	0	0	(1)	$Z_0 = 1$	Piston	
				$Z_0 = 1$		
1	1	-1	(3)	$Z_1 = \rho \sin\theta$	Tip	T
				$Z_1 = y$		Low
2	1	1	(2)	$Z_2 = \rho \sin\theta$	Tilt	
anarian propinsi				$Z_2 = x$		
3	2	-2	(5)	$Z_3 = \rho^2 \sin 2\theta$	Astig-45deg	
				$Z_3 = 2xy$		
4	2	0	(4)	$Z_4 = 2\rho^2 - 1$	Sphere	
				$Z_4 = 2(x^2 + y^2) - 1$		
5	2	2	(6)	$Z_5 = \rho^2 \sin 2\theta$	Astig-	
				$Z_5 = x^2 - y^2$	Q90deg	
6	3	-3	(9)	$Z_6 = \rho^2 \sin 3\theta$	Coma	
				$Z_6 = y(3x^2 - y^2)$		
7	3	-1	(7)	$Z_7 = (3\rho 3 - 2\rho)\sin\theta$		Medium
				$Z_7 = y(3(x^2 + y^2)-2)$		
8	3	1	(8)	$Z_8 = (3\rho^3 - 2\rho)\cos\theta$		
				$Z_8 = x (3(x^2 + y^2)-2)$		
9	3	3	(10)	$Z_9 = \rho^3 \cos 3\theta$	Coma	
				$Z_9 = x(x^2 - 3y^2)$		
10	4	-4	(15)	$Z_{10} = 4\rho^4 \sin 4\theta$		
				$Z_{10} = 4xy(x^2-y^2)$		
11	4	-2	(13)	$Z_{11} = (4\rho^4 - 3\rho^2)\sin 2\theta$		
				$Z_{11} = 2xy(4(x^2 + y^2)-3)$		
12	4	0	(11)	$Z_{12} = 6\rho^4 - 6\rho^2 + 1$	Spher Aberration	
				$Z_{11} = 1 + 6[(x^2 + y^2)^2 - (x^2 + y^2)]$	Auenation	
13	4	2	(12)	$Z_{13} = (4\rho^4 - 3\rho^2)\cos 2\theta$		
	<del> </del>			$Z_{13} = 4(x^4 - y^4) - 3(x^2 - y^2)$		
14	4	4	(14)	$Z_{14} = 4\rho^4 4\cos 4\theta$		
				$Z_{14} = x^4 + y^4 - 6x^2y^2$		

Fig. 12

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'FIG-14

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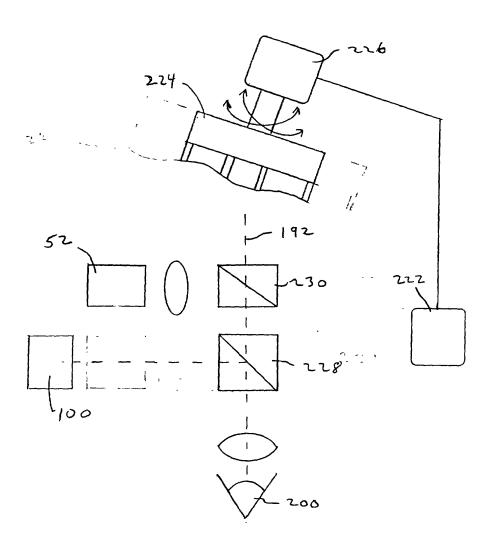
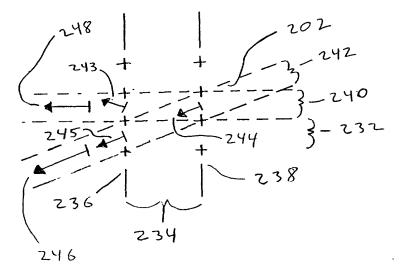


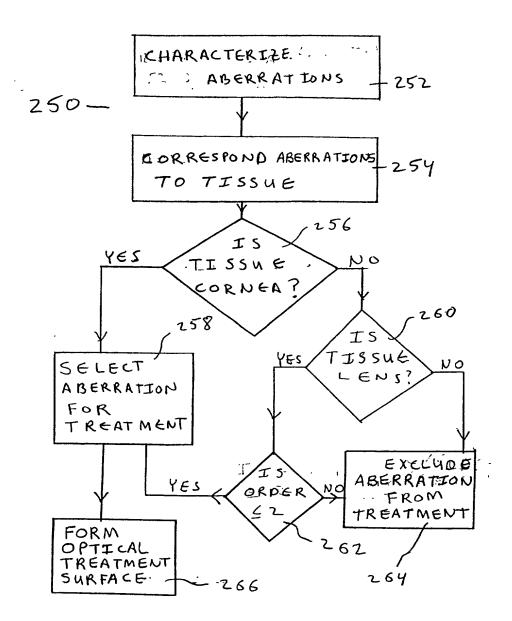
FIG-15

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FIG\_15A

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FIG\_16